ESTIMATE OF QUANTITIES

FOR BIDDING

FURNISH PIPE AND INSTALL

(DUCTILE IRON PUSH-ON RUBBER GASKET JOINT)

339 FT. - 6" WATER MAIN 7 FT. - 6" HYDRANT BRANCH

INSTALL

I - HYDRANT

REMOV E

I - HYDRANT / MINOR

SERV ICES

I - CONNECT ORIGINAL SERVICE (C.O.S.) (TAP BY CONTRACTOR - SEE C.O.S. NOTE)

PERMANENT PAVEMENT

230 SQ. YDS. - 8" CONCRETE (1/4 POINT REPLACEMENT) 15 SQ. YDS. - 3" ASPHALTIC CONCRETE 15 SQ. YDS. - 8" CONCRETE BASE

CURB AND GUTTER

12 LIN. FT. - CONCRETE

FURNISH AND INSTALL DOWEL BARS

350 BARS

BARRICADES AND TRAFFIC CONTROL

LUMP SUM

SAWCUTTING

340 LIN. FT. - IN CONCRETE (FULL DEPTH) 75 LIN. FT. - IN ASPHALT

FINISHING OF ROADWAY

LUMP SUM

FURNISH, INSTALL, AND MAINTAIN EROSION CONTROL

LUMP SUM

230 YDS. EXCESS EXCAVATED MATERIAL

FOLLOWING IS A LIST OF THE FITTINGS SHOWN ON THIS CONSTRUCTION PLAN THAT WILL BE PROVIDED

I - AT 6x6 I - T 6x6

2 - B6-45 2 - V6 2 - VB-D W/18*EXT.

I - H (7.5) 4 - SL6(DP)

I - I" CORPORATION STOP

CONCRETE - PLAIN

PAVEMENT TYPE

EXISTING PAVEMENT IN THE INTERSECTION OF S. 32ND ST. & W. BRANTING LN. IS V.T.A.C (1956) ON 2.5" (1915) SHEET ASPHALT ON 5" (1915) CONCRETE BASE EXISTING PAVEMENT IN W. BRANTING LN. IS 7" (1990)

ABANDONMENT OF WATER MAINS, VALVES, AND HYDRANT BRANCHES

35' - 6"-1932-L WATER MAIN 295' - 6"-1916-L WATER MAIN 8' - 6"-1910-L WATER MAIN

SCHEDULE

TIME FOR COMPLETION: 50 TOTAL WORKING DAYS. NO WORK SHALL BEGIN PRIOR TO MARCH 19, 2012. ALL WORK ON THIS CONTRACT SHALL BE COMPLETED BY JUNE 29, 2012.

EACH PROJECT IN THIS CONTRACT IS ASSIGNED AN ALLOWABLE NUMBER OF PROJECT WORKING DAYS. A PROJECT WORKING DAY IS DEFINED AS ANY DAY THE CONTRACTOR IS ABLE TO WORK A MINIMUM OF FOUR (4) HOURS TOWARDS COMPLETION OF THE PROJECT. FOLLOWING IS A LIST OF WATER MAIN INSTALLATION PROJECTS INCLUDED IN THIS CONTRACT AND THE ALLOWABLE PROJECT WORKING

W. BRANTING LN, FROM S. 32ND ST. TO S. 33RD ST., PLAN FILE NO. 2012001 - 13 WORKING DAYS.
S. 36TH ST. FROM W. BURNHAM ST. TO W. ROGERS ST., PLAN FILE NO. 2012002 - 15 WORKING DAYS.
S. 78TH ST. FROM W. OHIO AVE. TO W. VERONA CT., PLAN FILE NO.'S 2012003 AND 2012004 - 26 WORKING DAYS.

BENCHMARKS

STANDARD BENCHMARK - S.W. CORNER OF S. 32ND ST. & W. BRANTING LN. ELEVATION 102.601

PLAN LINE & UTILITY LEGEND SANITARY SEWER SAN ----STREET LIGHTING CITY UNDERGROUND CONDUIT _____ CUC ___ ELECTRIC PROPOSED CURB / PVMT _____ TELEPHONE COMBINED SEWER CMB ----WATER MAIN ______ PAVING LIMITS _____ X X X CABLE TELEVISION ___ FIBER OPTICS ______FO ____ WATER SERVICE _____ STRUCTURE / BUILDING / / / / / PROPOSED UTILITY PRESSURE DISTRICT ... WELLELLE FENCE UTILITIES oxtimes-TRAFFIC SIGNAL oxtimes-TRAFFIC CONTROL BOX $oldsymbol{\sigma}^G$ -GAS VALVE HYDRANTS O- I NOZZLE O- 3 NOZZLE

GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION", WHICH IS ATTACHED AND MADE PART OF THESE WATER MAIN PLANS AND CONTRACT DOCUMENTS.

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

THE MILWAUKEE WATER WORKS WILL FURNISH WATER MAIN MATERIALS AS INDICATED IN SPECIFICATION SECTION 4.3.1. THE CONTRACTOR SHALL FURNISH TEMPORARY TEST CAPS AND PLUGS. THE CONTRACTOR SHALL FURNISH ALL OTHER ITEMS REQUIRED TO COMPLETE THIS PROJECT.

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS, "ADAPTOR II" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "THE MILWAUKEE WATER WORKS STANDARD PLAN NOTES REGARDING WATER MAIN CONSTRUCTION".

HYDRANTS

THE CONTRACTOR SHALL RETURN ALL ABANDONED HYDRANTS TO THE DPW FIELD HEADQUARTERS - INFRASTRUCTURE, OPERATIONS, WATER WORKS. CONTACT MR. BEN GLATZEL AT 414-708-2839 FOR ADDITIONAL INFORMATION.

HYDRANT PERMITS

A \$65.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY.

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES, THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$675.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY \$325.00 FOR THE SETUP OF THE METER. THE \$65.00 HYDRANT PERMIT/USE FEE WILL BE WAIVED BY THE UTILITY. THE CONTRACTOR WILL NOT BE CHARGED FOR THE VOLUME OF WATER USED.

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MWW METER SERVICES DISPATCHER, 414-286-2865 MR. TIM GARCZYNSKI, WATER METER PROJECT MANAGER, 414-286-8119

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MJ FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

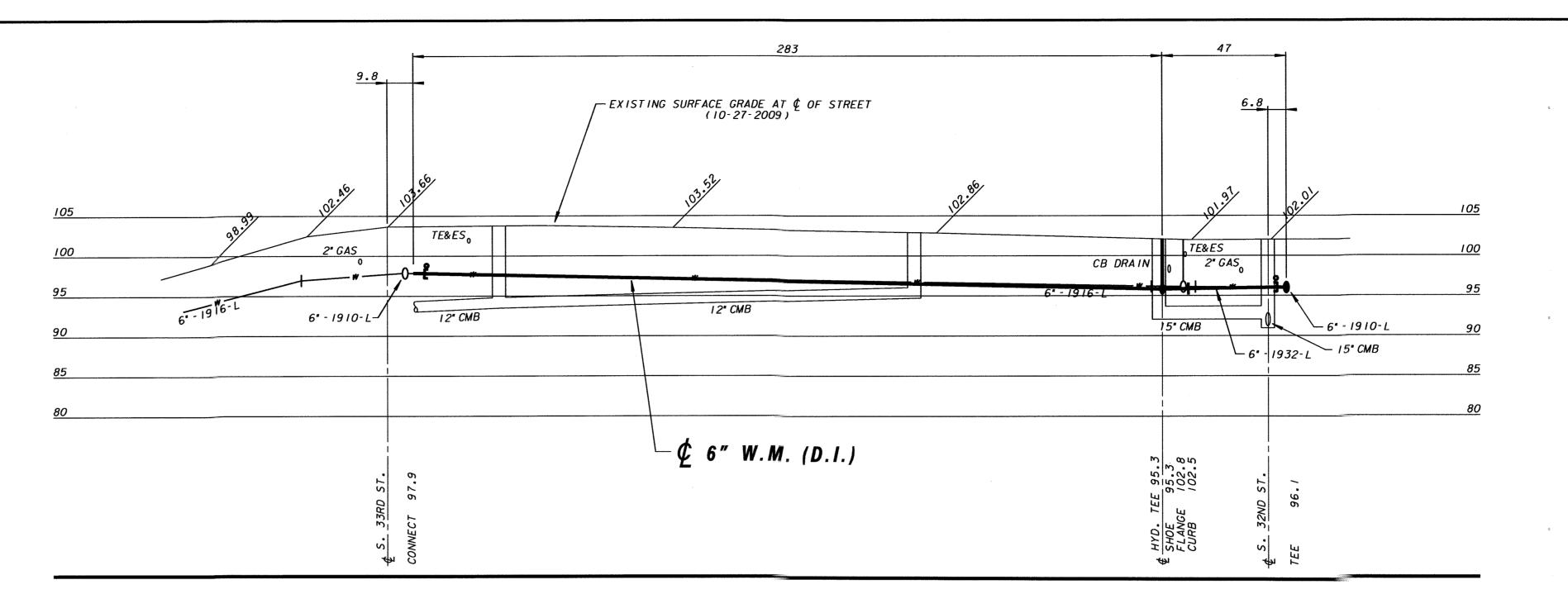
CONTRACTOR SHALL NOTIFY MWW 414-286-2427 IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE STANDARD PLAN NOTES INCLUDED IN BID DOCUMENTS.

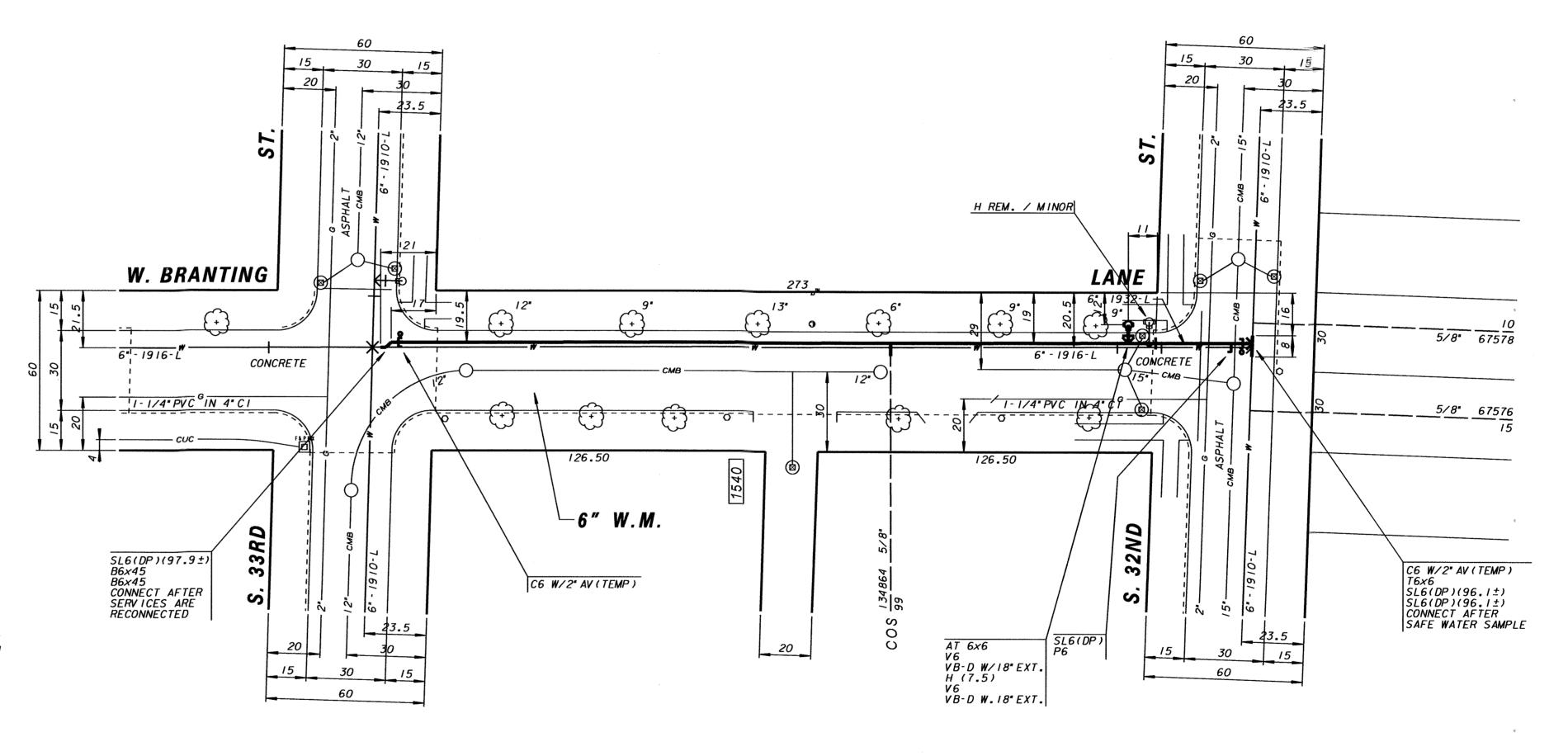
RESIDENT / BUSINESS NOTIFICATION

WITHIN TEN (10) WORKING DAYS FOLLOWING AWARD OF THIS CONTRACT, THE SUCCESSFUL BIDDER SHALL MAIL A NOTICE OF THE PROJECTS TO ALL AFFECTED AREA RESIDENTS AND BUSINESSES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL NOTICES ARE CONVEYED TO THE PUBLIC REGARDING THIS PROJECT. A SAMPLE NOTICE HAS BEEN INCLUDED IN THE BID PACKAGE. ANY CHANGES TO THE NOTICE MUST BE REVIEWED BY THE WATER ENGINEERING SECTION OF MWW. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FURNISH AND INSTALL WATER MAIN.

C.O.S. NOTE

TAPS REQUIRED FOR RE-CONNECTING SERVICES SHALL BE MADE BY THE CONTRACTOR. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONNECT ORIGINAL SERVICE.





CALL DIGGERS HOTLINE

1-800-242-8511

TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND
BEFORE YOU DIG. WISCONSIN STATUTE 182.0715 REQUIRES

MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NO. BY

REVISION



TRAFFIC PROVISIONS

MAINTAIN TWO WAY TRAFFIC.

USE "NO PARKING ANYTIME" SIGNS.

PAVEMENT MARKINGS MUST BE RETURNED TO ORIGINAL MATERIAL AND CONDITION.

PLEASE CONTACT TRAFFIC ENGINEERING AT 286-3632 FOR THE INSTALLATION OF TEMPORARY "NO PARKING" SIGNS OR IF THERE ARE ANY QUESTIONS CONCERNING THESE COMMENTS.

ANY PERSON WORKING IN THE PUBLIC WAY SHALL COMPLY WITH THE CITY OF MILWAUKEE, DEPARTMENT OF PUBLIC WORKS BOOKLET, "TRAFFIC CONTROL FOR CONSTRUCTION AND MAINTENANCE WORK" AND PART VI OF THE STATE OF WISCONSIN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

STREET LIGHTING NOTE

STREET LIGHTING HAS PIPES AND CABLES CROSSING WITHIN THE PROJECT LIMITS. THESE PIPES AND CABLES SHALL BE SUPPORTED IF OPEN CUT TRENCHING IS USED. DAMAGES SHALL BE REPORTED TO THE STREET LIGHTING SHOP AT 414-286-3481.

IF THERE ARE ANY IMPACTS TO CITY OF MILWAUKEE STREET LIGHTING EQUIPMENT, THE CONTRACTOR SHALL CONTACT ENG-KIE LEE IN ENGINEERING AT 414-286-2174 FOR NECESSARY ALTERATIONS.

| | Milwaukee Water Works | Water Engineering Department of Public Works | |
|------|---------------------------------|--|-----------------------|
| | WATER MAIN W. BRANTING LN. | | |
| | | | |
| | FROM TO | S. 32ND ST. S. 33RD ST. | |
| | SCALE VERTICAL 1" = 30' | Me Ble | 1-19-12 |
| | 1/4 SEC. NO. 458 | MAINS DESIGN ENGINEER | |
| | PLAN DATE 2-9-10 | - July J. Jun 1-19-12 CRIEF DESIGN ENGINEER | |
| | DRAWN BY S. MILLER | () () () () () () () () () (| CHIEF DESIGN ENGINEER |
| | CHECKED BY P.W.P. | Meus | 1/19/12 |
| | SURVEY BY CONST. SECTION | SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS | |
| | PROGRAM NO. 2010-622 | CONTRACT NO. | C.C. FILE NO. 101173 |
| | WORK ORDER WT410101022 | O.N. & PROJECT NO. 12-20-1 | DATE ADOPTED 2-8-11 |
| DATE | SHEET NO. 1 OF | 1 PLAN FILE NO | 2012001 |